

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P631902

Luminaire Tested: GWS-SA2B-750-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631902
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-750-U-T3R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5526.2 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

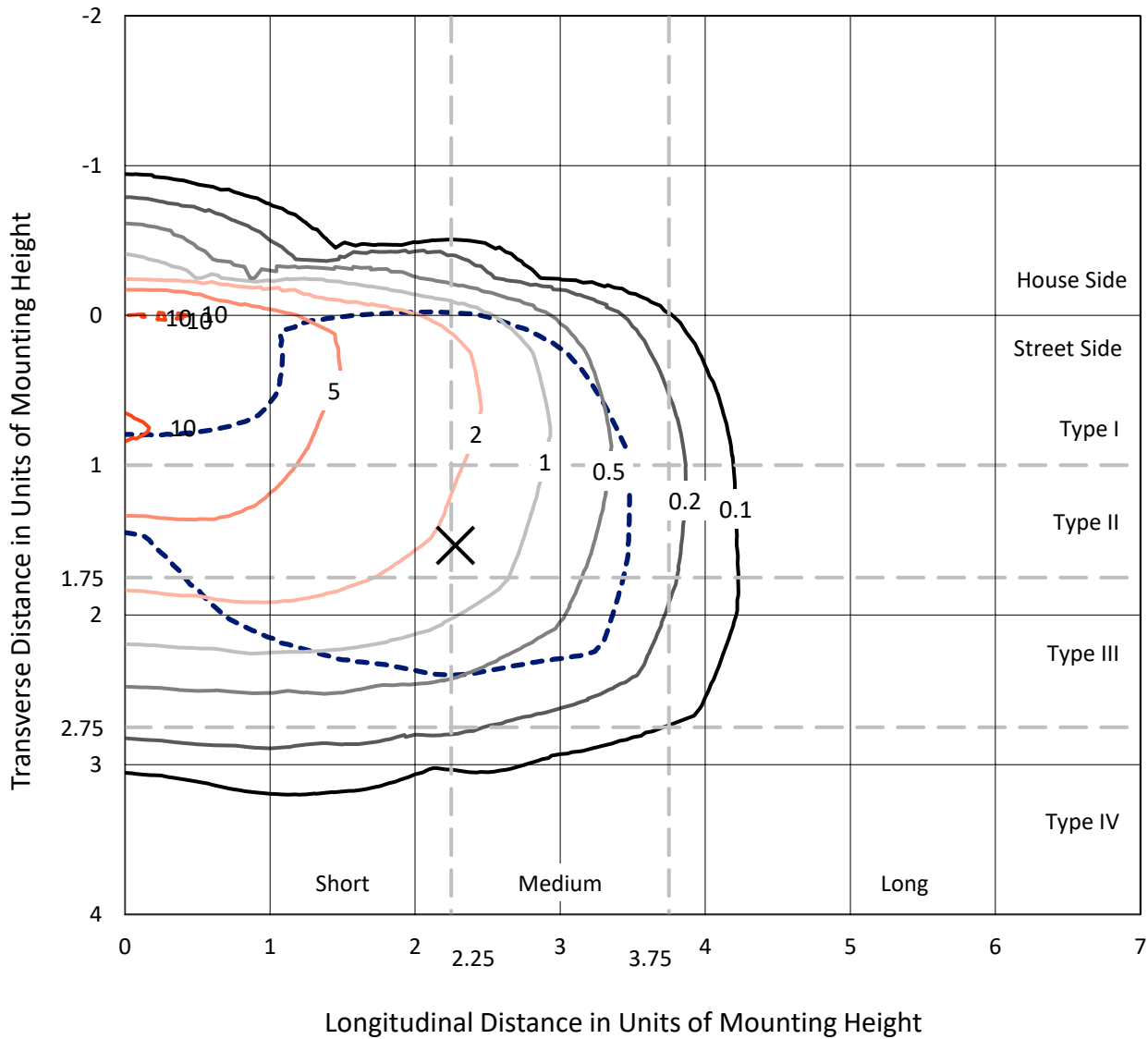
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

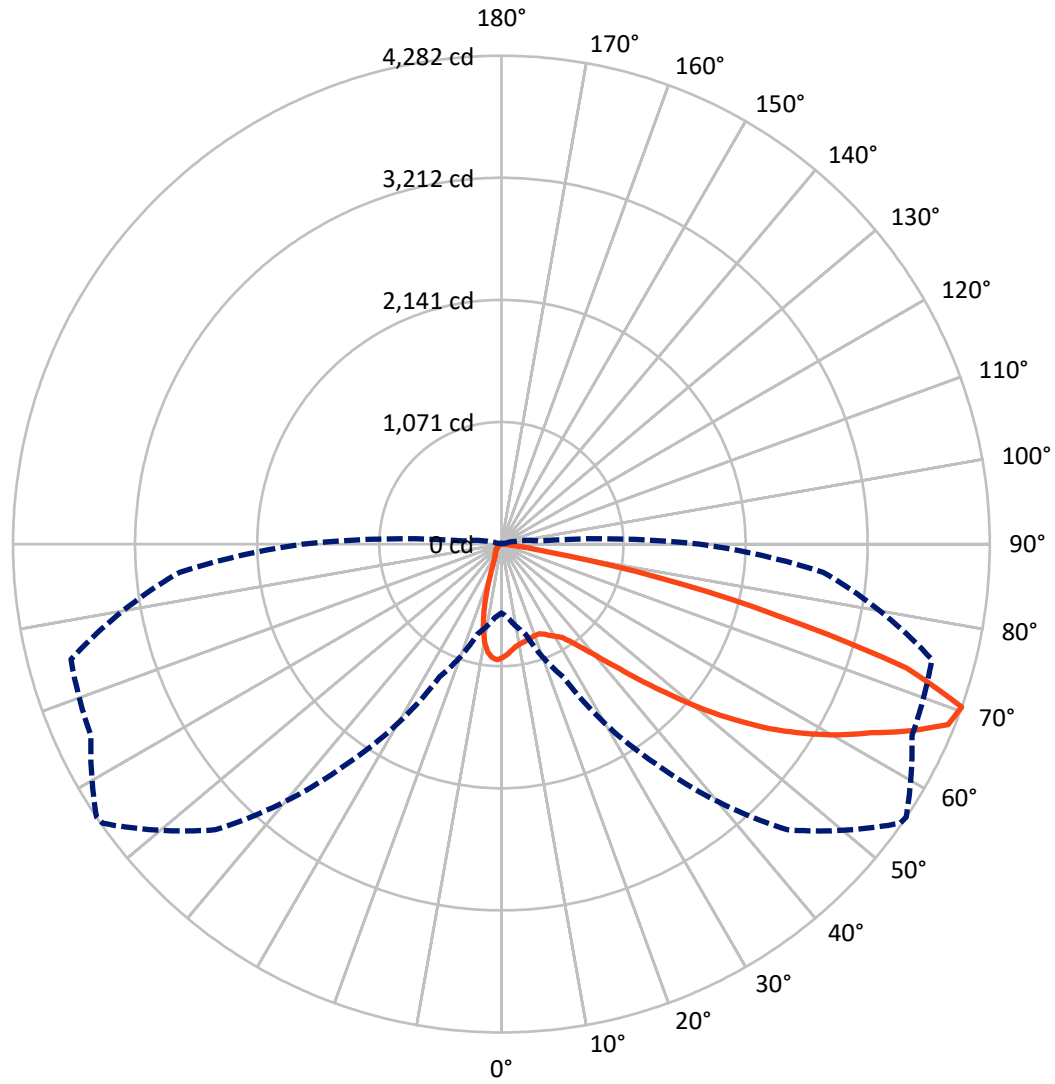
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	496.4	0.0	496.4
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	5029.8	0.0	5029.8
	% Fixture	91.0	0.0	91.0
Total	Lumens	5526.2	0.0	5526.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.6	1.5
10°-20°	192.4	3.5
20°-30°	304.8	5.5
30°-40°	525.6	9.5
40°-50°	887.6	16.1
50°-60°	1304.1	23.6
60°-70°	1546.1	28.0
70°-80°	659.3	11.9
80°-90°	20.7	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5526.2	100.0
0°-180°	5526.2	100.0

Coefficient of Utilization



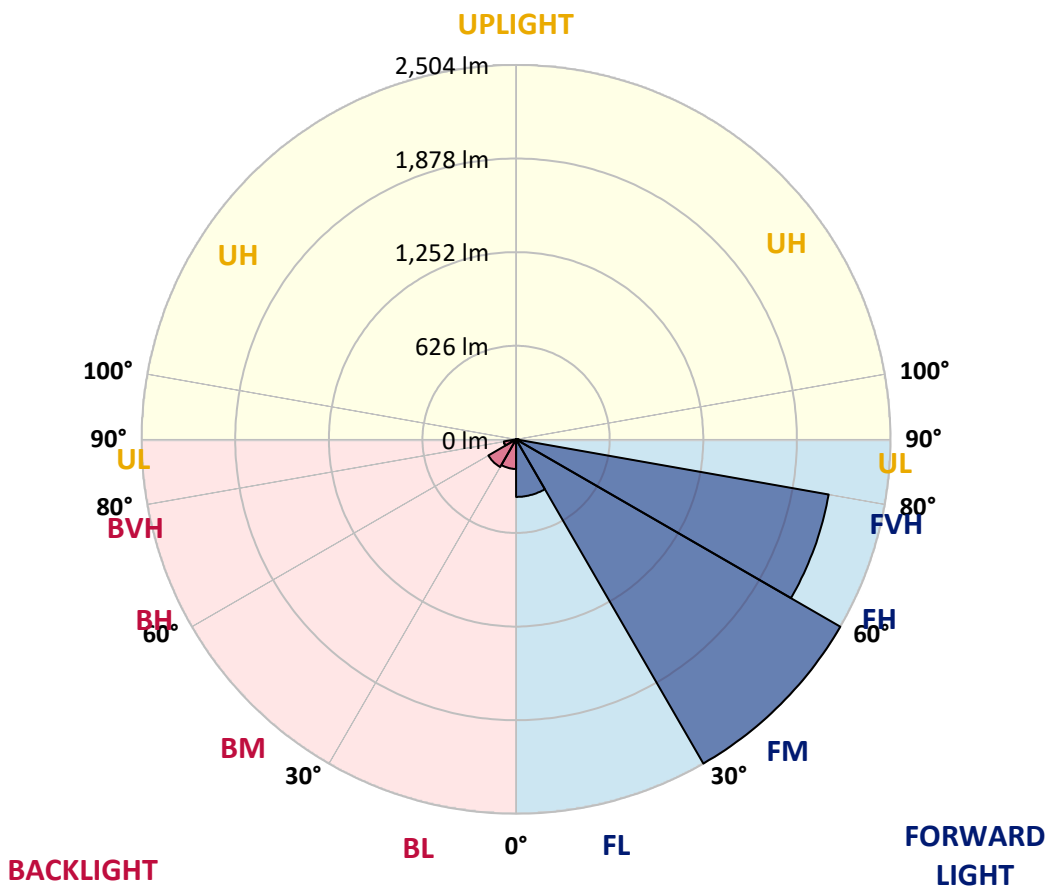
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	385.1	7.0			
FM (30°-60°)	2503.5	45.3			
FH (60°-80°)	2122.7	38.4			G2/5000
FVH (80°-90°)	18.6	0.3			G1/100
BL (0°-30°)	197.7	3.6	B1/500		
BM (30°-60°)	213.8	3.9	B0/220		
BH (60°-80°)	82.8	1.5	B0/110		G0/110
BVH (80°-90°)	2.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	996.4	996.4	996.4	996.4	996.4	996.4	996.4	996.4	996.4	996.4	996.4
2.5°	927.6	926.1	927.1	934.7	948.9	955.4	966.6	968.6	977.7	989.3	993.9
5°	867.4	862.3	864.9	875.5	891.7	909.9	930.6	936.2	959.0	984.8	1004.0
7.5°	812.2	806.7	812.7	829.4	852.2	871.9	902.8	906.4	942.8	988.3	1023.3
10°	725.7	727.2	739.4	768.7	803.6	844.6	886.1	891.2	936.2	1000.0	1054.1
12.5°	659.4	655.9	669.0	702.4	751.5	811.2	873.5	880.0	936.7	1017.7	1093.6
15°	628.5	627.5	633.1	657.4	704.9	775.3	861.8	870.4	943.3	1033.9	1131.0
17.5°	629.5	628.0	627.5	641.7	677.1	748.5	849.2	860.3	948.9	1051.6	1170.5
20°	673.6	666.5	653.8	647.2	668.5	731.3	840.6	853.2	957.0	1070.3	1212.5
22.5°	765.7	768.2	734.3	698.9	688.7	733.3	839.6	854.2	974.7	1099.7	1264.1
25°	949.9	945.8	883.1	803.6	748.5	756.6	857.3	875.0	1009.6	1141.7	1312.7
27.5°	1180.6	1184.2	1098.1	971.6	856.3	804.6	889.7	907.4	1050.1	1168.0	1345.1
30°	1432.1	1428.6	1336.5	1196.3	1009.1	884.6	922.0	937.7	1070.3	1182.2	1378.5
32.5°	1670.0	1661.9	1570.8	1424.0	1203.9	1010.6	966.6	975.7	1097.1	1213.0	1423.5
35°	1872.9	1872.4	1793.0	1636.6	1404.3	1168.5	1043.0	1050.6	1147.2	1262.1	1489.8
37.5°	2082.4	2075.3	1986.3	1843.6	1610.3	1341.6	1159.9	1156.9	1226.2	1334.5	1571.3
40°	2254.5	2249.9	2181.6	2044.5	1824.3	1532.9	1301.6	1292.5	1319.8	1434.7	1684.7
42.5°	2382.0	2382.5	2361.3	2277.8	2051.1	1754.0	1479.7	1465.5	1465.0	1586.0	1834.5
45°	2478.7	2485.3	2517.1	2504.5	2318.8	2011.6	1707.9	1693.3	1668.5	1782.3	2006.0
47.5°	2523.7	2532.3	2628.5	2679.1	2553.1	2267.1	1979.7	1948.8	1900.3	2043.5	2197.8
50°	2519.2	2534.3	2668.4	2822.3	2765.6	2526.2	2275.7	2261.1	2181.6	2319.8	2387.6
52.5°	2415.9	2448.3	2671.0	2909.3	2929.1	2765.1	2581.9	2554.6	2516.1	2608.2	2565.7
55°	2135.6	2175.0	2564.2	2937.2	3056.6	2973.6	2881.5	2859.2	2795.5	2880.5	2721.1
57.5°	1983.2	2017.1	2339.5	2923.5	3164.9	3166.4	3148.2	3130.0	3077.3	3149.7	2903.3
60°	1891.6	1925.6	2219.6	2873.4	3263.1	3369.8	3398.7	3396.7	3320.8	3455.9	3116.8
62.5°	1757.5	1804.1	2094.6	2743.3	3332.9	3570.2	3657.3	3643.6	3559.1	3774.7	3328.3
65°	1486.8	1527.3	1838.5	2528.8	3291.9	3736.2	3937.6	3944.7	3847.1	4074.8	3495.3
67.5°	1042.5	1072.3	1381.5	2078.4	3013.6	3790.9	4224.6	4224.1	4057.6	4228.6	3421.5
70°	604.2	645.2	816.3	1284.9	2344.6	3542.4	4267.6	4282.3	3972.1	3907.3	2831.4
72.5°	233.8	267.7	462.5	682.7	1222.6	2713.5	3670.9	3714.0	3324.3	3014.1	1970.6
75°	69.8	77.9	217.6	363.4	490.9	1310.7	2485.3	2497.4	2280.3	1880.0	1010.1
77.5°	52.1	57.7	95.1	183.7	172.1	397.3	1285.9	1404.3	1210.5	671.5	278.3
80°	35.4	42.0	67.8	89.6	63.8	105.8	361.3	396.7	369.4	150.8	69.8
82.5°	15.7	20.2	48.1	45.0	23.3	30.4	111.3	118.4	76.4	45.5	24.3
85°	1.5	2.0	18.2	19.7	8.6	7.1	23.3	23.3	16.7	15.7	10.1
87.5°	0.0	0.0	0.5	1.0	1.0	1.5	2.0	2.5	3.0	4.0	5.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	996.4	996.4	996.4	996.4	996.4	996.4	996.4	996.4	996.4	996.4	996.4
2.5°	1005.5	999.5	1007.1	1013.1	1014.6	1003.5	996.9	987.3	985.3	985.8	983.3
5°	1019.2	1016.2	1021.7	1015.2	997.9	965.6	937.7	906.9	890.2	880.5	879.5
7.5°	1044.5	1043.0	1036.9	1007.1	953.4	881.6	812.2	744.4	702.4	687.2	684.7
10°	1082.0	1078.9	1054.1	983.3	868.9	730.7	614.4	517.2	458.0	440.8	419.5
12.5°	1125.0	1118.9	1064.7	932.2	741.4	550.1	404.8	296.0	244.9	229.8	229.8
15°	1166.5	1153.3	1058.7	847.6	584.5	357.8	226.2	171.0	155.4	151.3	151.3
17.5°	1209.0	1183.7	1034.9	732.3	403.8	211.5	150.8	140.2	138.2	138.7	139.2
20°	1249.0	1209.5	992.9	593.6	257.6	147.8	135.1	132.6	131.6	132.6	132.1
22.5°	1292.5	1233.3	929.1	442.3	167.5	133.1	128.5	126.5	125.5	127.0	127.0
25°	1335.5	1250.5	844.6	297.6	133.1	124.0	121.5	119.4	118.4	118.9	118.9
27.5°	1357.8	1243.9	733.8	189.8	119.4	114.9	112.3	109.8	108.3	107.8	108.3
30°	1372.9	1223.6	598.2	135.1	108.3	102.7	100.2	98.2	94.1	91.6	92.6
32.5°	1396.7	1203.4	450.9	113.4	99.2	90.6	86.5	81.5	75.9	73.4	73.4
35°	1425.1	1175.6	316.3	102.2	89.6	80.5	72.9	64.3	57.7	55.7	55.7
37.5°	1462.5	1149.3	210.5	94.6	81.5	71.9	61.2	51.1	44.0	43.0	42.5
40°	1518.7	1127.0	148.3	89.1	74.4	62.8	50.1	39.5	34.4	32.9	32.9
42.5°	1591.6	1104.2	117.4	83.5	68.3	54.1	40.0	31.4	27.3	26.3	25.8
45°	1681.6	1077.4	102.2	78.4	62.2	45.0	31.9	26.3	23.3	22.3	22.3
47.5°	1779.3	1041.0	95.1	71.9	55.2	36.4	26.8	22.8	21.3	20.7	20.2
50°	1875.5	991.9	89.1	65.8	47.1	29.9	23.3	20.7	19.7	19.2	19.2
52.5°	1959.5	934.7	81.5	58.7	38.5	25.8	20.7	19.2	18.2	17.2	16.7
55°	2031.3	872.4	71.9	50.6	31.4	22.8	19.2	17.7	16.7	15.7	15.2
57.5°	2123.9	837.0	57.7	41.0	25.8	20.2	17.7	16.2	15.2	13.7	13.7
60°	2226.7	811.2	43.0	32.4	22.3	18.7	16.2	14.7	13.7	12.1	12.1
62.5°	2309.1	772.8	33.9	26.3	19.2	16.7	14.7	13.2	12.1	10.6	10.6
65°	2340.5	693.3	27.8	20.7	15.7	14.7	13.2	12.1	10.6	9.1	9.1
67.5°	2198.8	534.4	23.3	16.7	13.2	12.7	11.6	11.1	9.1	8.1	7.6
70°	1741.3	325.9	19.2	13.7	11.1	10.6	10.6	9.6	8.1	7.6	7.1
72.5°	1193.3	168.0	15.7	11.1	9.6	9.6	9.1	8.6	7.6	7.1	7.1
75°	619.9	56.2	12.1	8.6	7.6	8.1	8.1	7.6	7.1	7.1	6.6
77.5°	177.6	25.3	9.1	6.6	6.1	6.1	6.6	6.6	6.6	6.1	6.1
80°	46.1	14.7	6.6	5.1	5.1	5.1	5.1	5.6	6.1	5.6	5.6
82.5°	18.7	8.1	4.6	4.0	4.0	4.0	4.0	4.6	5.1	5.1	5.1
85°	11.6	4.0	3.5	3.5	3.5	3.0	3.0	3.5	3.5	4.0	4.0
87.5°	7.1	3.0	3.0	3.0	3.0	2.5	2.5	2.5	2.5	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)